

Section 845—Smooth Lined Corrugated Polyethylene (PE) Culvert Pipe

845.1 General Description

This section includes the requirements for smooth-lined, corrugated polyethylene culvert pipe.

845.1.01 Related References

A. Standard Specifications

General Provisions 101 through 150.

B. Referenced Documents

AASHTO M 294

AASHTO Standard Specifications for Highway Bridges, Division II

845.2 Materials

845.2.01 Smooth-lined, Corrugated Polyethylene (PE) Culvert Pipe

A. Requirements

Use pipe that meets the requirements of AASHTO M 294M, Type S.

Use fittings and couplings as recommended by the manufacturer and approved by the Office of Materials and Research. The fittings and couplings shall comply with the joint performance criteria of AASHTO Standard Specifications for Highway Bridges, Division II. Ensure that the joints are “soiltight” per the AASHTO bridge specifications.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

General Provisions 101 through 150.

D. Materials Warranty

General Provisions 101 through 150.

Section 846—Polyvinyl Chloride (PVC) Profile Wall Drain Pipe

846.1 General Description

This section includes the requirements for Polyvinyl Chloride (PVC) Profile Wall Drain Pipe.

846.1.01 Related References

A. Standard Specifications

Section 106—Control of Materials

B. Referenced Documents

AASHTO M 304

ASTM F 477

ASTM D 3212

846.2 Materials

846.2.01 Polyvinyl Chloride (PVC) Profile Wall Drain Pipe

A. Requirements

Use pipe that meets the requirements of AASHTO M 304.

Ensure joints are watertight and have elastomeric seals that meet the requirements of ASTM F 477.

Assemble the joints according to the manufacturer's recommendations.

B. Fabrication

General Provisions 101 through 150.

C. Acceptance

Have the manufacturer test the joint tightness according to ASTM D 3212 and certify the results according to Subsection 106.05.

D. Materials Warranty

General Provisions 101 through 150.

Section 847—Miscellaneous Pipe

847.1 General Description

This section includes the requirements for water, storm drain, and sewer pipes. The pipe types are:

- Galvanized steel pipe and fittings
- Steel water pipe
- Copper pipe tubing
- Steel sewer pipe and casing pipe
- Plastic water pipe
- Plastic truss sewer pipe
- Polyvinyl chloride (PVC) sewer pipe and fittings

847.1.01 Related References

A. Standard Specifications

Section 106—Control of Materials

Section 848—Pipe Appurtenances

B. Referenced Documents

ANSI B 16.3	ASTM		
AWWA	A 53/A53M	D 2239	F 477
C 201	A 139	D 2241	F 714
C 202	B 88 (B 88M)	D 2680	F 794
C 203	D 1248	D 3034	F 949
C 205	D 1784	D 3212	F 1483
C 301	D 1785	D 3350	
C 900			

847.2 Materials

Each item under this section requires a certification from the manufacturer according to Subsection 106.05, "Materials Certification."

847.2.01 Galvanized Steel Pipe and Fittings

A. Requirements

1. Type

Use galvanized steel pipe that meets the requirements of ASTM A 53/A 53M. Use standard weight pipe unless otherwise specified.